

AMENDMENT OF THE CLAIMS

The listing of claims below replace all prior versions, and listings, of claims:

1 1. (Currently Amended) A system, comprising:
2 a portable user interface device; and
3 a control module; and
4 a tool selected from the group consisting of a well tool and a tool containing one
5 or more explosive elements, the tool coupled to the control module,
6 the portable user interface device adapted to communicate wirelessly with the
7 control module tool.

1 2. (Currently Amended) The system of claim 1, wherein the portable user interface
2 device comprises a display to display a graphical user interface.

1 3. (Original) The system of claim 2, wherein the graphical user interface comprises
2 one or more graphical elements selectable to control the tool.

1 4. (Currently Amended) The system of claim 1, wherein the portable user interface
2 device comprises a personal digital assistant.

1 5. (Currently Amended) The system of claim 1, wherein the portable user interface
2 device comprises an infrared transceiver adapted to communicate infrared signals.

1 6. (Currently Amended) The system of claim 1, wherein the ~~user interface device~~
2 control module is adapted to send a command to the tool to perform a test of the tool.

1 7. (Original) The system of claim 6, wherein the user interface device comprises a
2 display to show a result of the test.

1 8. (Original) The system of claim 6, wherein the tool comprises plural control units,
2 the user interface device adapted to send commands to the tool to successively test the plural
3 control units.

1 9. (Currently Amended) The system of claim 8, wherein the tool comprises a string
2 of elements, and ~~a test system~~ the control module is coupled to the string of elements;
3 ~~the test system having a port adapted to communicate wirelessly with the user~~
4 ~~interface device.~~

1 10. - 27. (Cancelled)

1 28. (Currently Amended) A method comprising:
2 providing a portable user interface device; ~~and~~
3 wirelessly communicating with a ~~tool~~ control module using the portable user
4 interface device,
5 the tool selected from the group consisting of a well tool and a tool containing one
6 or more explosive elements; and
7 the control module communicating with the tool.

1 29. (Currently Amended) The method of claim 28, further comprising accepting user
2 selection of an item in a graphical user interface of the portable user interface device to perform
3 a task associated with the tool.

1 30. (Original) The method of claim 29, further comprising displaying a status of the
2 tool in the graphical user interface.

1 31. (Original) The method of claim 30, wherein displaying the status comprises
2 displaying status of plural devices in the tool.

1 32. (Original) The method of claim 30, wherein displaying the status comprises
2 displaying a status of control units for explosive devices.

1 33. (Original) The method of claim 28, further comprising sending a command to the
2 tool to test the tool.

1 34. (Original) The method of claim 28, further comprising receiving identifiers of
2 components for use in the tool.

1 35. (Original) The method of claim 34, wherein receiving the identifiers comprises
2 scanning bar codes of the components.

1 36. (Original) The method of claim 35, wherein scanning the bar codes comprises
2 using a scanner module coupled to the user interface device.

1 37. (Original) The method of claim 35, wherein the components comprises control
2 units, the method further comprising assigning the bar codes as addresses of the control units.

1 38. (Original) The method of claim 34, wherein receiving the identifiers comprises
2 receiving the identifiers using a radio frequency transceiver.

1 39. (Original) The method of claim 28, further comprising encapsulating the user
2 interface device in a cover adapted to reduce discharge of an electrical impulse.

1 40. (Original) The method of claim 28, further comprising providing a security
2 feature in the user interface device to prevent unauthorized access of the user interface device,
3 the security feature comprising one of a field to accept a password and a component to interact
4 with a smart card.

1 41. (Original) The method of claim 28, further comprising storing information
2 relating to a distance between a casing collar locator and one or more shots of the tool.

1 42. (Original) The method of claim 28, wherein the tool comprises a core sampling
2 tool, the method further comprising storing information collected by the core sampling tool in
3 the user interface device.

A3 43. - 61. (Cancelled)

1 62. (New) The system of claim 1, wherein the portable user interface device
2 comprises a graphical user interface having one or more control elements selectable to activate
3 testing of the tool.

1 63. (New) The system of claim 62, wherein the tool comprises plural control units,
2 the portable user interface device adapted to send commands to sequentially test the plural
3 control units.

1 64. (New) The system of claim 63, wherein the graphical user interface is adapted to
2 display acquired information pertaining to each of the control units.

1 65. (New) The system of claim 62, wherein the graphical user interface is adapted to
2 display information pertaining to control units for explosive devices.

1 66. (New) The system of claim 1, wherein the control module comprises a current
2 limiting device adapted to limit an amount of current delivered to the tool to allow safe use with
3 explosive devices in the tool.

1 67. (New) The system of claim 66, wherein the control module further comprises a
2 second, redundant current limiting device.

1 68. (New) The system of claim 66, wherein the control module further comprises a
2 switch to couple output current from the current limiting device to the tool.

1 69. (New) The system of claim 68, wherein the control module is adapted to check
2 for a current level to be below a predefined limit before closing the switch.

A3
1 70. (New) The system of claim 66, wherein the control module further comprises a
2 fuse placed in a current path to the tool.

1 71. (New) The system of claim 1, wherein the control module further comprises a
2 current detector to detect current from the tool, the control module adapted to use an output of
3 the current detector to determine for presence of components in the tool.

1 72. (New) The system of claim 71, wherein the control module is adapted to further
2 use the output of the current detector to determine if a component of the tool has failed.

1 73. (New) The system of claim 1, wherein the control module further comprises a
2 current detector to detect current from the tool, the control module adapted to use an output of
3 the current detector to determine if a component in the tool has failed.

1 74. (New) The system of claim 1, wherein the portable user interface device is
2 adapted to check that communications with components of the tool is functional.

1 75. (New) The system of claim 74, wherein the portable user interface device is
2 adapted to verify addresses of the components in the tool.

1 76. (New) The method of claim 33, wherein sending the command comprises sending
2 the command from the control module to the tool.

1 77. (New) The method of claim 28, further comprising:
2 receiving, in the portable user interface device, identifiers of inventory
3 components for use in the tool;
4 storing information pertaining to the inventory components; and
5 updating the information based on usage.

1 78. (New) The method of claim 77, wherein receiving the identifiers comprises using
2 a scanner module to receive the identifiers.

A3 1 79. (New) The method of claim 77, wherein receiving the identifiers comprises
2 receiving identifiers of components of an explosive tool.

1 80. (New) The method of claim 79, wherein receiving the identifiers comprises
2 receiving identifiers of control units and switches.

1 81. (New) The system of claim 6, wherein the control module is responsive to
2 wireless signals from the portable user interface device to send coded signals to the tool for
3 testing the tool, the control module comprising a detector adapted to detect a status of one or
4 more components of the tool.

1 82. (New) The system of claim 81, wherein the detector comprises a current detector
2 adapted to detect a level of electrical current.

1 83. (New) The system of claim 81, wherein the detector is adapted to detect for at
2 least one of the following failures: mis-wiring of a components in the tool; a short in the tool;
3 and the presence of a detonator in the tool.
